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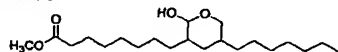
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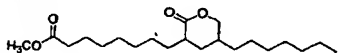
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(54) Title: ALDEHYDE AND ALCOHOL COMPOSITIONS DERIVED FROM SEED OILS

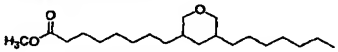
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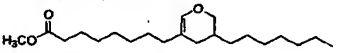
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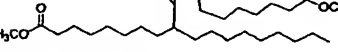
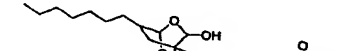
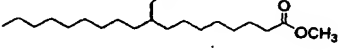
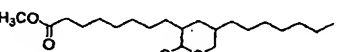
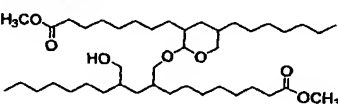
Saturated Cyclic Ether



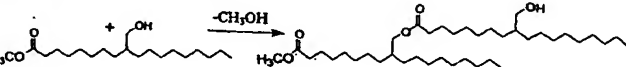
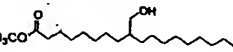
Unsaturated Cyclic Ether



Dimer Heavies



Condensation Heavies



(57) Abstract: An aldehyde composition derived by hydroformylation of a transesterified seed oil and containing a mixture of formyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoformyl, greater than about 1 to less than about 65 percent diformyl, and greater than about 0.1 to less than about 10 percent triformyl-substituted fatty acids or fatty acid esters, and having a diformyl to triformyl weight ratio of greater than about 5/1; preferably, greater than about 3 to less than about 20 percent saturates; and preferably, greater than about 1 to less than about 20 percent unsaturates. An alcohol composition derived by hydrogenation of the aforementioned aldehyde composition, containing a mixture of hydroxymethyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoalcohol {mono(hydroxymethyl)}, greater than about 1 to less than about 65 percent diol {di(hydroxymethyl)}, greater than about 0.1 to less than about 10 percent triol, tri(hydroxymethyl)-substituted fatty acids or fatty acid esters; preferably greater than about 3 to less than about 35 percent saturates; and preferably, less than about 10 percent unsaturates. The alcohol composition can be converted into an oligomeric polyol for use in the manufacture of polyurethane slab stock flexible foams.



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- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH,

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A. CLASSIFICATION OF SUBJECT MATTER

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C07C69/732 C11C3/00 C11C3/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07C C11C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>US 3 787 459 A (FRANKEL E) 22 January 1974 (1974-01-22) cited in the application column 1, line 13 - line 16 column 1, line 30 - line 43 column 2, line 21 - line 42 column 2, line 46 - column 3, line 61 column 4, line 10 - line 12 column 4, line 48 - line 57 column 5, line 50 - column 6, line 18; claims 1-3,5-7; examples 19-22</p> <p style="text-align: center;">----- -/--</p>	1-17

☒ Further documents are listed in the continuation of box C.

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/012246

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	page 2, line 3 - line 11 page 2, line 36 - line 39 page 2, line 47 - page 3, line 45 page 4, line 46 - line 59 page 5, line 9 - line 10 page 5, line 30 - page 7, line 10; claims	1-17
Y	US 5 756 854 A (FELL BERNHARD ET AL) 26 May 1998 (1998-05-26) column 1, line 12 - line 50 column 1, line 58 - line 67 column 2, line 29 - line 33 column 2, line 43 - line 56 column 2, line 66 - column 3, line 11 column 3, line 17 - line 18 column 3, line 30 - line 47 column 4, line 47 - line 51 column 5, line 40 - line 46 column 5, line 58 - line 67; claims 1,2,5,6,13,15,16,19-23; examples 1-7,17	1-17

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Information on patent family members

International Application No

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